

Chuan He

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

363
papers

54,732
citations

113
h-index

231
g-index

398
ext. papers

70,845
ext. citations

16.6
avg, IF

7.99
L-index

#	Paper	IF	Citations
363	Tet proteins can convert 5-methylcytosine to 5-formylcytosine and 5-carboxylcytosine. <i>Science</i> , 2011 , 333, 1300-3	33.3	2426
362	Tet-mediated formation of 5-carboxylcytosine and its excision by TDG in mammalian DNA. <i>Science</i> , 2011 , 333, 1303-7	33.3	1980
361	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014 , 505, 117-20	50.4	1949
360	N6-methyladenosine in nuclear RNA is a major substrate of the obesity-associated FTO. <i>Nature Chemical Biology</i> , 2011 , 7, 885-7	11.7	1937
359	ALKBH5 is a mammalian RNA demethylase that impacts RNA metabolism and mouse fertility. <i>Molecular Cell</i> , 2013 , 49, 18-29	17.6	1627
358	N(6)-methyladenosine Modulates Messenger RNA Translation Efficiency. <i>Cell</i> , 2015 , 161, 1388-99	56.2	1493
357	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014 , 10, 93-5	11.7	1458
356	Global epigenomic reconfiguration during mammalian brain development. <i>Science</i> , 2013 , 341, 1237905	33.3	1283
355	Dynamic RNA Modifications in Gene Expression Regulation. <i>Cell</i> , 2017 , 169, 1187-1200	56.2	1250
354	N(6)-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. <i>Nature</i> , 2015 , 518, 560-4	50.4	988
353	Post-transcriptional gene regulation by mRNA modifications. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 31-42	48.7	909
352	Gene expression regulation mediated through reversible m ⁶ A RNA methylation. <i>Nature Reviews Genetics</i> , 2014 , 15, 293-306	30.1	905
351	Selective chemical labeling reveals the genome-wide distribution of 5-hydroxymethylcytosine. <i>Nature Biotechnology</i> , 2011 , 29, 68-72	44.5	816
350	Base-resolution analysis of 5-hydroxymethylcytosine in the mammalian genome. <i>Cell</i> , 2012 , 149, 1368-80	56.2	801
349	Recognition of RNA N-methyladenosine by IGF2BP proteins enhances mRNA stability and translation. <i>Nature Cell Biology</i> , 2018 , 20, 285-295	23.4	795
348	FTO Plays an Oncogenic Role in Acute Myeloid Leukemia as a N-Methyladenosine RNA Demethylase. <i>Cancer Cell</i> , 2017 , 31, 127-141	24.3	736
347	m ⁶ A Demethylase ALKBH5 Maintains Tumorigenicity of Glioblastoma Stem-like Cells by Sustaining FOXM1 Expression and Cell Proliferation Program. <i>Cancer Cell</i> , 2017 , 31, 591-606.e6	24.3	734

346	YTHDF3 facilitates translation and decay of N-methyladenosine-modified RNA. <i>Cell Research</i> , 2017 , 27, 315-328	24.7	696
345	mA RNA Methylation Regulates the Self-Renewal and Tumorigenesis of Glioblastoma Stem Cells. <i>Cell Reports</i> , 2017 , 18, 2622-2634	10.6	656
344	5-hmC-mediated epigenetic dynamics during postnatal neurodevelopment and aging. <i>Nature Neuroscience</i> , 2011 , 14, 1607-16	25.5	639
343	FTO-dependent demethylation of N6-methyladenosine regulates mRNA splicing and is required for adipogenesis. <i>Cell Research</i> , 2014 , 24, 1403-19	24.7	612
342	The dynamic N(1)-methyladenosine methylome in eukaryotic messenger RNA. <i>Nature</i> , 2016 , 530, 441-6	50.4	523
341	RNA N6-methyladenosine methylation in post-transcriptional gene expression regulation. <i>Genes and Development</i> , 2015 , 29, 1343-55	12.6	514
340	Where, When, and How: Context-Dependent Functions of RNA Methylation Writers, Readers, and Erasers. <i>Molecular Cell</i> , 2019 , 74, 640-650	17.6	511
339	R-2HG Exhibits Anti-tumor Activity by Targeting FTO/mA/MYC/CEBPA Signaling. <i>Cell</i> , 2018 , 172, 90-105.e33	57.3	479
338	METTL14 Inhibits Hematopoietic Stem/Progenitor Differentiation and Promotes Leukemogenesis via mRNA mA Modification. <i>Cell Stem Cell</i> , 2018 , 22, 191-205.e9	18	476
337	Genome-wide profiling of 5-formylcytosine reveals its roles in epigenetic priming. <i>Cell</i> , 2013 , 153, 678-915	56.2	453
336	YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. <i>ELife</i> , 2017 , 6,	8.9	452
335	RNA mA methylation regulates the ultraviolet-induced DNA damage response. <i>Nature</i> , 2017 , 543, 573-576	56.4	449
334	Selective fluorescent probes for live-cell monitoring of sulphide. <i>Nature Communications</i> , 2011 , 2, 495	17.4	437
333	DNA Methylation on N6-Adenine in <i>C. elegans</i> . <i>Cell</i> , 2015 , 161, 868-78	56.2	424
332	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. <i>Cell Research</i> , 2017 , 27, 1115-1127	24.7	404
331	N6-methyladenine DNA modification in <i>Drosophila</i> . <i>Cell</i> , 2015 , 161, 893-906	56.2	401
330	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. <i>Nature Chemical Biology</i> , 2014 , 10, 927-9	11.7	383
329	RNA modifications modulate gene expression during development. <i>Science</i> , 2018 , 361, 1346-1349	33.3	376

328	Zc3h13 Regulates Nuclear RNA m ^A Methylation and Mouse Embryonic Stem Cell Self-Renewal. <i>Molecular Cell</i> , 2018 , 69, 1028-1038.e6	17.6	362
327	Temporal Control of Mammalian Cortical Neurogenesis by m ^A Methylation. <i>Cell</i> , 2017 , 171, 877-889.e17	56.2	358
326	Anti-tumour immunity controlled through mRNA m ^A methylation and YTHDF1 in dendritic cells. <i>Nature</i> , 2019 , 566, 270-274	50.4	358
325	m ^A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. <i>Nature Cell Biology</i> , 2018 , 20, 1074-1083	23.4	358
324	Programming and inheritance of parental DNA methylomes in mammals. <i>Cell</i> , 2014 , 157, 979-991	56.2	347
323	VIRMA mediates preferential m ^A mRNA methylation in 3'UTR and near stop codon and associates with alternative polyadenylation. <i>Cell Discovery</i> , 2018 , 4, 10	22.3	332
322	Probing N ⁶ -methyladenosine RNA modification status at single nucleotide resolution in mRNA and long noncoding RNA. <i>Rna</i> , 2013 , 19, 1848-56	5.8	320
321	N ⁶ -methyldeoxyadenosine marks active transcription start sites in <i>Chlamydomonas</i> . <i>Cell</i> , 2015 , 161, 879-892	38.2	316
320	Oxidative demethylation of 3-methylthymine and 3-methyluracil in single-stranded DNA and RNA by mouse and human FTO. <i>FEBS Letters</i> , 2008 , 582, 3313-9	3.8	302
319	m ^A -dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. <i>Nature</i> , 2017 , 542, 475-478	50.4	293
318	Grand challenge commentary: RNA epigenetics?. <i>Nature Chemical Biology</i> , 2010 , 6, 863-5	11.7	292
317	Efficient and quantitative high-throughput tRNA sequencing. <i>Nature Methods</i> , 2015 , 12, 835-837	21.6	291
316	Differential m ^A , m ⁶ A, and m ³ A Demethylation Mediated by FTO in the Cell Nucleus and Cytoplasm. <i>Molecular Cell</i> , 2018 , 71, 973-985.e5	17.6	289
315	N-methyladenosine (m ^A) recruits and repels proteins to regulate mRNA homeostasis. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 870-878	17.6	261
314	FTO-mediated formation of N ⁶ -hydroxymethyladenosine and N ⁶ -formyladenosine in mammalian RNA. <i>Nature Communications</i> , 2013 , 4, 1798	17.4	255
313	m ^A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. <i>Nature Communications</i> , 2019 , 10, 2782	17.4	254
312	High-resolution N ⁶ -methyladenosine (m ⁶ A) map using photo-crosslinking-assisted m ⁶ A sequencing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1587-90	16.4	249
311	Mechanism and function of oxidative reversal of DNA and RNA methylation. <i>Annual Review of Biochemistry</i> , 2014 , 83, 585-614	29.1	243

310	Unique features of the m6A methylome in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2014 , 5, 5630	17.4	239
309	Thymine DNA glycosylase specifically recognizes 5-carboxylcytosine-modified DNA. <i>Nature Chemical Biology</i> , 2012 , 8, 328-30	11.7	238
308	RNA mA methylation regulates the epithelial mesenchymal transition of cancer cells and translation of Snail. <i>Nature Communications</i> , 2019 , 10, 2065	17.4	234
307	Histone H3 trimethylation at lysine 36 guides mA RNA modification co-transcriptionally. <i>Nature</i> , 2019 , 567, 414-419	50.4	232
306	5mC oxidation by Tet2 modulates enhancer activity and timing of transcriptome reprogramming during differentiation. <i>Molecular Cell</i> , 2014 , 56, 286-297	17.6	226
305	Reversible RNA adenosine methylation in biological regulation. <i>Trends in Genetics</i> , 2013 , 29, 108-15	8.5	223
304	Dynamics of Human and Viral RNA Methylation during Zika Virus Infection. <i>Cell Host and Microbe</i> , 2016 , 20, 666-673	23.4	221
303	Integrating 5-hydroxymethylcytosine into the epigenomic landscape of human embryonic stem cells. <i>PLoS Genetics</i> , 2011 , 7, e1002154	6	217
302	mA facilitates hippocampus-dependent learning and memory through YTHDF1. <i>Nature</i> , 2018 , 563, 249-253	33.4	208
301	Silver-catalyzed intermolecular amination of C-H groups. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5184-6	16.4	206
300	Tet-assisted bisulfite sequencing of 5-hydroxymethylcytosine. <i>Nature Protocols</i> , 2012 , 7, 2159-70	18.8	203
299	Crystal structures of DNA/RNA repair enzymes AlkB and ABH2 bound to dsDNA. <i>Nature</i> , 2008 , 452, 961-5	30.4	203
298	Sensitive and specific single-molecule sequencing of 5-hydroxymethylcytosine. <i>Nature Methods</i> , 2011 , 9, 75-7	21.6	202
297	Efficient aziridination of olefins catalyzed by a unique disilver(I) compound. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16202-3	16.4	201
296	A silver-catalyzed intramolecular amidation of saturated C-H bonds. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4210-2	16.4	198
295	ALKBH1-Mediated tRNA Demethylation Regulates Translation. <i>Cell</i> , 2016 , 167, 816-828.e16	56.2	197
294	Epigenetic mechanisms in neurogenesis. <i>Nature Reviews Neuroscience</i> , 2016 , 17, 537-49	13.5	195
293	Glutamate dehydrogenase 1 signals through antioxidant glutathione peroxidase 1 to regulate redox homeostasis and tumor growth. <i>Cancer Cell</i> , 2015 , 27, 257-70	24.3	194

292	A protein engineered to bind uranyl selectively and with femtomolar affinity. <i>Nature Chemistry</i> , 2014 , 6, 236-41	17.6	192
291	-methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. <i>Science</i> , 2020 , 367, 580-586	33.3	185
290	DNA hydroxymethylation profiling reveals that WT1 mutations result in loss of TET2 function in acute myeloid leukemia. <i>Cell Reports</i> , 2014 , 9, 1841-1855	10.6	183
289	Live Cell MicroRNA Imaging Using Cascade Hybridization Reaction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6116-9	16.4	182
288	Crystal structure of the YTH domain of YTHDF2 reveals mechanism for recognition of N6-methyladenosine. <i>Cell Research</i> , 2014 , 24, 1493-6	24.7	179
287	Mapping recently identified nucleotide variants in the genome and transcriptome. <i>Nature Biotechnology</i> , 2012 , 30, 1107-16	44.5	179
286	Epitranscriptomic mA Regulation of Axon Regeneration in the Adult Mammalian Nervous System. <i>Neuron</i> , 2018 , 97, 313-325.e6	13.9	171
285	Mettl3-/Mettl14-mediated mRNA N-methyladenosine modulates murine spermatogenesis. <i>Cell Research</i> , 2017 , 27, 1216-1230	24.7	171
284	Direct reversal of DNA alkylation damage. <i>Chemical Reviews</i> , 2006 , 106, 215-32	68.1	168
283	N(6)-methyladenosine of HIV-1 RNA regulates viral infection and HIV-1 Gag protein expression. <i>ELife</i> , 2016 , 5,	8.9	167
282	A fluorescent probe for rapid detection of hydrogen sulfide in blood plasma and brain tissues in mice. <i>Chemical Science</i> , 2012 , 3, 2920	9.4	164
281	Recent Advances in Silver-Catalyzed Nitrene, Carbene, and Silylene-Transfer Reactions. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 4313-4322	3.2	162
280	Intramolecular additions of alcohols and carboxylic acids to inert olefins catalyzed by silver(I) triflate. <i>Organic Letters</i> , 2005 , 7, 4553-6	6.2	162
279	Structural insight into substrate preference for TET-mediated oxidation. <i>Nature</i> , 2015 , 527, 118-22	50.4	159
278	DNA N(6)-methyladenine: a new epigenetic mark in eukaryotes?. <i>Nature Reviews Molecular Cell Biology</i> , 2015 , 16, 705-10	48.7	157
277	Nucleic Acid Modifications in Regulation of Gene Expression. <i>Cell Chemical Biology</i> , 2016 , 23, 74-85	8.2	155
276	An oxidation-sensing mechanism is used by the global regulator MgrA in <i>Staphylococcus aureus</i> 2006 , 2, 591-5		154
275	5-Hydroxymethylcytosine signatures in circulating cell-free DNA as diagnostic biomarkers for human cancers. <i>Cell Research</i> , 2017 , 27, 1243-1257	24.7	154

274	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. <i>Nature Cell Biology</i> , 2015 , 17, 1484-96	23.4	153
273	NMethyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. <i>Nature Chemical Biology</i> , 2019 , 15, 88-94	11.7	149
272	Nm-seq maps 2QO-methylation sites in human mRNA with base precision. <i>Nature Methods</i> , 2017 , 14, 695-698	21.6	146
271	Abundant DNA 6mA methylation during early embryogenesis of zebrafish and pig. <i>Nature Communications</i> , 2016 , 7, 13052	17.4	141
270	Bacterial infection remodels the DNA methylation landscape of human dendritic cells. <i>Genome Research</i> , 2015 , 25, 1801-11	9.7	138
269	An exceptionally selective lead(II)-regulatory protein from <i>Ralstonia metallidurans</i> : development of a fluorescent lead(II) probe. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2715-2719	16.4	137
268	Transcriptome-wide Mapping of Internal N-Methylguanosine Methylome in Mammalian mRNA. <i>Molecular Cell</i> , 2019 , 74, 1304-1316.e8	17.6	133
267	Nitrene transfer reactions catalyzed by gold complexes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5876-80	4.2	133
266	Impairment of DNA Methylation Maintenance Is the Main Cause of Global Demethylation in Naive Embryonic Stem Cells. <i>Molecular Cell</i> , 2016 , 62, 848-861	17.6	129
265	Ythdf2-mediated mA mRNA clearance modulates neural development in mice. <i>Genome Biology</i> , 2018 , 19, 69	18.3	129
264	Single-base mapping of mA by an antibody-independent method. <i>Science Advances</i> , 2019 , 5, eaax0250	14.3	128
263	Effects of cytosine modifications on DNA flexibility and nucleosome mechanical stability. <i>Nature Communications</i> , 2016 , 7, 10813	17.4	126
262	Regulation of Co-transcriptional Pre-mRNA Splicing by mA through the Low-Complexity Protein hnRNPG. <i>Molecular Cell</i> , 2019 , 76, 70-81.e9	17.6	124
261	Suppression of mA reader Ythdf2 promotes hematopoietic stem cell expansion. <i>Cell Research</i> , 2018 , 28, 904-917	24.7	124
260	ALKBH10B Is an RNA -Methyladenosine Demethylase Affecting Arabidopsis Floral Transition. <i>Plant Cell</i> , 2017 , 29, 2995-3011	11.6	124
259	Protein cysteine phosphorylation of SarA/MgrA family transcriptional regulators mediates bacterial virulence and antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15461-6	11.5	124
258	Inhibition of human copper trafficking by a small molecule significantly attenuates cancer cell proliferation. <i>Nature Chemistry</i> , 2015 , 7, 968-79	17.6	121
257	The emerging biology of RNA post-transcriptional modifications. <i>RNA Biology</i> , 2017 , 14, 156-163	4.8	119

256	Molecular basis for 5-carboxycytosine recognition by RNA polymerase II elongation complex. <i>Nature</i> , 2015 , 523, 621-5	50.4	118
255	Widespread occurrence of N6-methyladenosine in bacterial mRNA. <i>Nucleic Acids Research</i> , 2015 , 43, 6557-67	16.7	117
254	A selective fluorescent probe for carbon monoxide imaging in living cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9652-6	16.4	117
253	The <i>Pseudomonas aeruginosa</i> multidrug efflux regulator MexR uses an oxidation-sensing mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13586-91	11.5	116
252	Circadian Clock Regulation of Hepatic Lipid Metabolism by Modulation of mA mRNA Methylation. <i>Cell Reports</i> , 2018 , 25, 1816-1828.e4	10.6	115
251	The AlkB domain of mammalian ABH8 catalyzes hydroxylation of 5-methoxycarbonylmethyluridine at the wobble position of tRNA. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8885-8	16.4	113
250	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. <i>Molecular Cancer</i> , 2019 , 18, 163	42.1	113
249	TET proteins safeguard bivalent promoters from de novo methylation in human embryonic stem cells. <i>Nature Genetics</i> , 2018 , 50, 83-95	36.3	108
248	Bisulfite-free, base-resolution analysis of 5-formylcytosine at the genome scale. <i>Nature Methods</i> , 2015 , 12, 1047-50	21.6	106
247	Loss of 5-hydroxymethylcytosine is linked to gene body hypermethylation in kidney cancer. <i>Cell Research</i> , 2016 , 26, 103-18	24.7	102
246	N6-methyladenosine modification and the YTHDF2 reader protein play cell type specific roles in lytic viral gene expression during Kaposi's sarcoma-associated herpesvirus infection. <i>PLoS Pathogens</i> , 2018 , 14, e1006995	7.6	102
245	Chemical modification-assisted bisulfite sequencing (CAB-Seq) for 5-carboxylcytosine detection in DNA. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9315-7	16.4	100
244	Genome-wide mapping of 5-hydroxymethylcytosines in circulating cell-free DNA as a non-invasive approach for early detection of hepatocellular carcinoma. <i>Gut</i> , 2019 , 68, 2195-2205	19.2	99
243	A new oxidative sensing and regulation pathway mediated by the MgrA homologue SarZ in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2009 , 71, 198-211	4.1	97
242	Dynamic RNA modifications in posttranscriptional regulation. <i>Molecular Cell</i> , 2014 , 56, 5-12	17.6	96
241	Enhanced 5-methylcytosine detection in single-molecule, real-time sequencing via Tet1 oxidation. <i>BMC Biology</i> , 2013 , 11, 4	7.3	96
240	The multiple antibiotic resistance regulator MarR is a copper sensor in <i>Escherichia coli</i> . <i>Nature Chemical Biology</i> , 2014 , 10, 21-8	11.7	95
239	FMRP Modulates Neural Differentiation through mA-Dependent mRNA Nuclear Export. <i>Cell Reports</i> , 2019 , 28, 845-854.e5	10.6	94

238	Metabolic Rewiring by Oncogenic BRAF V600E Links Ketogenesis Pathway to BRAF-MEK1 Signaling. <i>Molecular Cell</i> , 2015 , 59, 345-358	17.6	91
237	N-methyladenosine modification enables viral RNA to escape recognition by RNA sensor RIG-I. <i>Nature Microbiology</i> , 2020 , 5, 584-598	26.6	91
236	RNA epigenetics--chemical messages for posttranscriptional gene regulation. <i>Current Opinion in Chemical Biology</i> , 2016 , 30, 46-51	9.7	91
235	DNA repair by reversal of DNA damage. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013 , 5, a012575	10.2	91
234	A non-heme iron-mediated chemical demethylation in DNA and RNA. <i>Accounts of Chemical Research</i> , 2009 , 42, 519-29	24.3	90
233	Chemical Modifications in the Life of an mRNA Transcript. <i>Annual Review of Genetics</i> , 2018 , 52, 349-372	14.5	90
232	miR-22 has a potent anti-tumour role with therapeutic potential in acute myeloid leukaemia. <i>Nature Communications</i> , 2016 , 7, 11452	17.4	89
231	Regulation of Gene Expression by N-methyladenosine in Cancer. <i>Trends in Cell Biology</i> , 2019 , 29, 487-499	18.3	88
230	RNA Demethylase ALKBH5 Selectively Promotes Tumorigenesis and Cancer Stem Cell Self-Renewal in Acute Myeloid Leukemia. <i>Cell Stem Cell</i> , 2020 , 27, 64-80.e9	18	88
229	A Highly Sensitive and Robust Method for Genome-wide 5hmC Profiling of Rare Cell Populations. <i>Molecular Cell</i> , 2016 , 63, 711-719	17.6	83
228	A dynamic N-methyladenosine methylome regulates intrinsic and acquired resistance to tyrosine kinase inhibitors. <i>Cell Research</i> , 2018 , 28, 1062-1076	24.7	83
227	The structure of the human AGT protein bound to DNA and its implications for damage detection. <i>Journal of Molecular Biology</i> , 2005 , 350, 657-66	6.5	80
226	m A RNA methylation: from mechanisms to therapeutic potential. <i>EMBO Journal</i> , 2021 , 40, e105977	13	80
225	Genome-wide analysis of N1-methyl-adenosine modification in human tRNAs. <i>Rna</i> , 2010 , 16, 1317-27	5.8	79
224	Lysine acetylation activates 6-phosphogluconate dehydrogenase to promote tumor growth. <i>Molecular Cell</i> , 2014 , 55, 552-65	17.6	78
223	Golden pigment production and virulence gene expression are affected by metabolisms in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2010 , 192, 3068-77	3.5	78
222	Reading RNA methylation codes through methyl-specific binding proteins. <i>RNA Biology</i> , 2014 , 11, 669-724	4.8	77
221	Hydroxymethylation at gene regulatory regions directs stem/early progenitor cell commitment during erythropoiesis. <i>Cell Reports</i> , 2014 , 6, 231-244	10.6	76

220	Crystal structures of the reduced, sulfenic acid, and mixed disulfide forms of SarZ, a redox active global regulator in <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 23517-24	5.4	76
219	MeCP2 recognizes cytosine methylated tri-nucleotide and di-nucleotide sequences to tune transcription in the mammalian brain. <i>PLoS Genetics</i> , 2017 , 13, e1006793	6	76
218	TET Family proteins: oxidation activity, interacting molecules, and functions in diseases. <i>Chemical Reviews</i> , 2015 , 115, 2225-39	68.1	75
217	N6-methyldeoxyadenine is a transgenerational epigenetic signal for mitochondrial stress adaptation. <i>Nature Cell Biology</i> , 2019 , 21, 319-327	23.4	74
216	RNA cytosine methylation and methyltransferases mediate chromatin organization and 5-azacytidine response and resistance in leukaemia. <i>Nature Communications</i> , 2018 , 9, 1163	17.4	73
215	mA mRNA Methylation Regulates Human β -Cell Biology in Physiological States and in Type 2 Diabetes. <i>Nature Metabolism</i> , 2019 , 1, 765-774	14.6	73
214	Nuclear m(6)A Reader YTHDC1 Regulates mRNA Splicing. <i>Trends in Genetics</i> , 2016 , 32, 320-321	8.5	71
213	Mettl14 Is Essential for Epitranscriptomic Regulation of Striatal Function and Learning. <i>Neuron</i> , 2018 , 99, 283-292.e5	13.9	71
212	A metabolic labeling method detects mA transcriptome-wide at single base resolution. <i>Nature Chemical Biology</i> , 2020 , 16, 887-895	11.7	70
211	YTHDF3 Induces the Translation of mA-Enriched Gene Transcripts to Promote Breast Cancer Brain Metastasis. <i>Cancer Cell</i> , 2020 , 38, 857-871.e7	24.3	70
210	Sprouts of RNA epigenetics: the discovery of mammalian RNA demethylases. <i>RNA Biology</i> , 2013 , 10, 915-988	48	69
209	Quorum-sensing agr mediates bacterial oxidation response via an intramolecular disulfide redox switch in the response regulator AgrA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9095-100	11.5	68
208	Decoding the epitranscriptional landscape from native RNA sequences. <i>Nucleic Acids Research</i> , 2021 , 49, e7	20.1	68
207	N-Deoxyadenosine Methylation in Mammalian Mitochondrial DNA. <i>Molecular Cell</i> , 2020 , 78, 382-395.e8	17.6	66
206	Ten-eleven translocation 2 interacts with forkhead box O3 and regulates adult neurogenesis. <i>Nature Communications</i> , 2017 , 8, 15903	17.4	65
205	Epitranscriptomic influences on development and disease. <i>Genome Biology</i> , 2017 , 18, 197	18.3	64
204	Dynamics of spontaneous flipping of a mismatched base in DNA duplex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8043-8	11.5	64
203	Base-resolution maps of 5-formylcytosine and 5-carboxylcytosine reveal genome-wide DNA demethylation dynamics. <i>Cell Research</i> , 2015 , 25, 386-9	24.7	64

202	Nucleic acid oxidation in DNA damage repair and epigenetics. <i>Chemical Reviews</i> , 2014 , 114, 4602-20	68.1	63
201	AirSR, a [2Fe-2S] cluster-containing two-component system, mediates global oxygen sensing and redox signaling in <i>Staphylococcus aureus</i> . <i>Journal of the American Chemical Society</i> , 2012 , 134, 305-14	16.4	63
200	A methylation-dependent electrostatic switch controls DNA repair and transcriptional activation by <i>E. coli</i> <i>ada</i> . <i>Molecular Cell</i> , 2005 , 20, 117-29	17.6	63
199	Characterization of eukaryotic DNA N(6)-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. <i>Nature Communications</i> , 2016 , 7, 11301	17.4	62
198	Upregulation of METTL14 mediates the elevation of PERP mRNA N adenosine methylation promoting the growth and metastasis of pancreatic cancer. <i>Molecular Cancer</i> , 2020 , 19, 130	42.1	62
197	Tet2 loss leads to hypermutagenicity in haematopoietic stem/progenitor cells. <i>Nature Communications</i> , 2017 , 8, 15102	17.4	61
196	2QO-methylation in mRNA disrupts tRNA decoding during translation elongation. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 208-216	17.6	61
195	<i>Pseudomonas aeruginosa</i> OspR is an oxidative stress sensing regulator that affects pigment production, antibiotic resistance and dissemination during infection. <i>Molecular Microbiology</i> , 2010 , 75, 76-91	4.1	61
194	Silver-Catalyzed Intermolecular Amination of C?H Groups. <i>Angewandte Chemie</i> , 2007 , 119, 5276-5278	3.6	60
193	Targeted mA Reader Proteins To Study Epitranscriptomic Regulation of Single RNAs. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11974-11981	16.4	60
192	Kinetic gating mechanism of DNA damage recognition by Rad4/XPC. <i>Nature Communications</i> , 2015 , 6, 5849	17.4	59
191	Synthesis of a FTO inhibitor with anticonvulsant activity. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 658-65	5.7	59
190	Oxidative dealkylation DNA repair mediated by the mononuclear non-heme iron AlkB proteins. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 670-8	4.2	57
189	Sources of artifact in measurements of 6mA and 4mC abundance in eukaryotic genomic DNA. <i>BMC Genomics</i> , 2019 , 20, 445	4.5	56
188	Evolution of a reverse transcriptase to map N-methyladenosine in human messenger RNA. <i>Nature Methods</i> , 2019 , 16, 1281-1288	21.6	55
187	A Genetically Encoded FRET Sensor for Intracellular Heme. <i>ACS Chemical Biology</i> , 2015 , 10, 1610-5	4.9	54
186	The dynamics of DNA methylation fidelity during mouse embryonic stem cell self-renewal and differentiation. <i>Genome Research</i> , 2014 , 24, 1296-307	9.7	54
185	UO Π + uptake by proteins: understanding the binding features of the super uranyl binding protein and design of a protein with higher affinity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17484-94	16.4	54

184	Engineering a uranyl-specific binding protein from NikR. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2339-41	16.4	54
183	DNA N-methyladenine in metazoans: functional epigenetic mark or bystander?. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 503-506	17.6	54
182	An integrated multi-omics approach identifies epigenetic alterations associated with Alzheimer's disease. <i>Nature Genetics</i> , 2020 , 52, 1024-1035	36.3	53
181	Genetic analyses support the contribution of mRNA N-methyladenosine (m ⁶ A) modification to human disease heritability. <i>Nature Genetics</i> , 2020 , 52, 939-949	36.3	52
180	ALKBH4-dependent demethylation of actin regulates actomyosin dynamics. <i>Nature Communications</i> , 2013 , 4, 1832	17.4	51
179	Base-Resolution Analysis of Cisplatin-DNA Adducts at the Genome Scale. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14246-14249	16.4	51
178	Duplex interrogation by a direct DNA repair protein in search of base damage. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 671-6	17.6	49
177	Mapping and characterizing N ⁶ -methyladenine in eukaryotic genomes using single-molecule real-time sequencing. <i>Genome Research</i> , 2018 , 28, 1067-1078	9.7	48
176	m ⁶ A mRNA Methylation Is Essential for Oligodendrocyte Maturation and CNS Myelination. <i>Neuron</i> , 2020 , 105, 293-309.e5	13.9	47
175	N-Allyladenosine: A New Small Molecule for RNA Labeling Identified by Mutation Assay. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17213-17216	16.4	46
174	Redox signaling in human pathogens. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 1107-18	8.4	45
173	Weakened N ³ Hydrogen Bonding by 5-Formylcytosine and 5-Carboxylcytosine Reduces Their Base-Pairing Stability. <i>ACS Chemical Biology</i> , 2016 , 11, 470-7	4.9	45
172	EGFR/SRC/ERK-stabilized YTHDF2 promotes cholesterol dysregulation and invasive growth of glioblastoma. <i>Nature Communications</i> , 2021 , 12, 177	17.4	44
171	Developing drugs targeting transition metal homeostasis. <i>Current Opinion in Chemical Biology</i> , 2017 , 37, 26-32	9.7	43
170	Circulating tumor DNA 5-hydroxymethylcytosine as a novel diagnostic biomarker for esophageal cancer. <i>Cell Research</i> , 2018 , 28, 597-600	24.7	43
169	Damage detection and base flipping in direct DNA alkylation repair. <i>ChemBioChem</i> , 2009 , 10, 417-23	3.8	43
168	RNA m ⁶ A Modification in Cancers: Molecular Mechanisms and Potential Clinical Applications. <i>Innovation(China)</i> , 2020 , 1, 100066	17.8	42
167	Bioorthogonal labeling of 5-hydroxymethylcytosine in genomic DNA and diazirine-based DNA photo-cross-linking probes. <i>Accounts of Chemical Research</i> , 2011 , 44, 709-17	24.3	42

166	RNA-protein interaction mapping via MS2- or Cas13-based APEX targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22068-22079	11.5	42
165	Bisulfite-Free, Nanoscale Analysis of 5-Hydroxymethylcytosine at Single Base Resolution. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13190-13194	16.4	42
164	Pseudouridine in a new era of RNA modifications. <i>Cell Research</i> , 2015 , 25, 153-4	24.7	41
163	Crystal structure of the RNA demethylase ALKBH5 from zebrafish. <i>FEBS Letters</i> , 2014 , 588, 892-8	3.8	41
162	The RNA-binding protein FMRP facilitates the nuclear export of m^6A -methyladenosine-containing mRNAs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 19889-19895	5.4	41
161	Modeling non-heme iron proteins. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 201-8	9.7	39
160	The <i>Pseudomonas aeruginosa</i> global regulator VqsR directly inhibits QscR to control quorum-sensing and virulence gene expression. <i>Journal of Bacteriology</i> , 2012 , 194, 3098-108	3.5	38
159	ALKBHs-facilitated RNA modifications and de-modifications. <i>DNA Repair</i> , 2016 , 44, 87-91	4.3	38
158	m^6A -dynamics in neurodevelopment and aging, and its potential role in Alzheimer's disease. <i>Genome Biology</i> , 2021 , 22, 17	18.3	38
157	A TET homologue protein from <i>Coprinopsis cinerea</i> (CcTET) that biochemically converts 5-methylcytosine to 5-hydroxymethylcytosine, 5-formylcytosine, and 5-carboxylcytosine. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4801-4	16.4	37
156	Targeted inhibition of STAT/TET1 axis as a therapeutic strategy for acute myeloid leukemia. <i>Nature Communications</i> , 2017 , 8, 2099	17.4	36
155	Base-resolution detection of m^4C in genomic DNA using 4mC-Tet-assisted-bisulfite-sequencing. <i>Nucleic Acids Research</i> , 2015 , 43, e148	20.1	36
154	Preparation and characterization of the native iron(II)-containing DNA repair AlkB protein directly from <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2004 , 126, 16930-6	16.4	36
153	FOXO1 potentiates lineage-specific enhancer activation through modulating TET1 expression and function. <i>Nucleic Acids Research</i> , 2016 , 44, 8153-64	20.1	36
152	Viral m^6A upregulates replication and pathogenesis of human respiratory syncytial virus. <i>Nature Communications</i> , 2019 , 10, 4595	17.4	35
151	Syntheses of two 5-hydroxymethyl-2-deoxythymine phosphoramidites with TBDMS as the 5-hydroxymethyl protecting group and their incorporation into DNA. <i>Journal of Organic Chemistry</i> , 2011 , 76, 4182-8	4.2	35
150	Our views of dynamic m^6A RNA methylation. <i>Rna</i> , 2018 , 24, 268-272	5.8	35
149	Evolution of transcript modification by m^6A in primates. <i>Genome Research</i> , 2017 , 27, 385-397	3.7	34

148	REPIC: a database for exploring the N-methyladenosine methylome. <i>Genome Biology</i> , 2020 , 21, 100	18.3	33
147	Structural insight into the oxidation-sensing mechanism of the antibiotic resistance of regulator MexR. <i>EMBO Reports</i> , 2010 , 11, 685-90	6.5	33
146	Inhibition of Copper Transport Induces Apoptosis in Triple-Negative Breast Cancer Cells and Suppresses Tumor Angiogenesis. <i>Molecular Cancer Therapeutics</i> , 2019 , 18, 873-885	6.1	31
145	Application of a low cost array-based technique - TAB-Array - for quantifying and mapping both 5mC and 5hmC at single base resolution in human pluripotent stem cells. <i>Genomics</i> , 2014 , 104, 358-67	4.3	31
144	Detection of 5-hydroxymethylcytosine in a combined glycosylation restriction analysis (CGRA) using restriction enzyme TaqI. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5075-7	2.9	31
143	Keth-seq for transcriptome-wide RNA structure mapping. <i>Nature Chemical Biology</i> , 2020 , 16, 489-492	11.7	31
142	TET-mediated epimutagenesis of the Arabidopsis thaliana methylome. <i>Nature Communications</i> , 2018 , 9, 895	17.4	30
141	Molecular mechanism of quinone signaling mediated through S-quinonization of a YodB family repressor QsrR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5010-5	11.5	30
140	Trapping distinct structural states of a protein/DNA interaction through disulfide crosslinking. <i>Chemistry and Biology</i> , 2002 , 9, 1297-303		29
139	Staphylococcus aureus CymR is a new thiol-based oxidation-sensing regulator of stress resistance and oxidative response. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21102-9	5.4	28
138	How do DNA repair proteins locate potential base lesions? a chemical crosslinking method to investigate O6-alkylguanine-DNA alkyltransferases. <i>Chemistry and Biology</i> , 2003 , 10, 827-35		28
137	Organocatalytic Asymmetric Direct C-H Functionalization of Ethers: A Highly Efficient Approach to Chiral Spiroethers. <i>Angewandte Chemie</i> , 2012 , 124, 8941-8945	3.6	27
136	OGT binds a conserved C-terminal domain of TET1 to regulate TET1 activity and function in development. <i>ELife</i> , 2018 , 7,	8.9	27
135	Cytokine-Regulated Phosphorylation and Activation of TET2 by JAK2 in Hematopoiesis. <i>Cancer Discovery</i> , 2019 , 9, 778-795	24.4	26
134	Quantifying mammalian genomic DNA hydroxymethylcytosine content using solid-state nanopores. <i>Scientific Reports</i> , 2016 , 6, 29565	4.9	26
133	Steady-state hydrogen peroxide induces glycolysis in Staphylococcus aureus and Pseudomonas aeruginosa. <i>Journal of Bacteriology</i> , 2014 , 196, 2499-513	3.5	26
132	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. <i>Angewandte Chemie</i> , 2015 , 127, 1607-1610	3.6	26
131	N-methyldeoxyadenosine directs nucleosome positioning in Tetrahymena DNA. <i>Genome Biology</i> , 2018 , 19, 200	18.3	26

130	Control of Early B Cell Development by the RNA N-Methyladenosine Methylation. <i>Cell Reports</i> , 2020 , 31, 107819	10.6	25
129	Detailed modeling of positive selection improves detection of cancer driver genes. <i>Nature Communications</i> , 2019 , 10, 3399	17.4	24
128	YTHDF2 promotes mitotic entry and is regulated by cell cycle mediators. <i>PLoS Biology</i> , 2020 , 18, e30006647	6.4	24
127	A New Model of Spontaneous Colitis in Mice Induced by Deletion of an RNA mA Methyltransferase Component METTL14 in T Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020 , 10, 747-761	7.9	23
126	Kethoxal-assisted single-stranded DNA sequencing captures global transcription dynamics and enhancer activity in situ. <i>Nature Methods</i> , 2020 , 17, 515-523	21.6	23
125	Epigenetic DNA Modification N-Methyladenine Causes Site-Specific RNA Polymerase II Transcriptional Pausing. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14436-14442	16.4	23
124	Engineering bacterial two-component system PmrA/PmrB to sense lanthanide ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2037-9	16.4	23
123	5-Hydroxymethylcytosine-mediated alteration of transposon activity associated with the exposure to adverse in utero environments in human. <i>Human Molecular Genetics</i> , 2016 , 25, 2208-2219	5.6	21
122	Identification of MLL-fusion/MYC?miR-26?TET1 signaling circuit in MLL-rearranged leukemia. <i>Cancer Letters</i> , 2016 , 372, 157-65	9.9	21
121	Molecular mechanisms of two-component system RhpRS regulating type III secretion system in <i>Pseudomonas syringae</i> . <i>Nucleic Acids Research</i> , 2014 , 42, 11472-86	20.1	21
120	Panorama of DNA hairpin folding observed via diffusion-decelerated fluorescence correlation spectroscopy. <i>Chemical Communications</i> , 2012 , 48, 7413-7415	5.8	21
119	A human tissue map of 5-hydroxymethylcytosines exhibits tissue specificity through gene and enhancer modulation. <i>Nature Communications</i> , 2020 , 11, 6161	17.4	21
118	Stabilization of ERK-Phosphorylated METTL3 by USP5 Increases mA Methylation. <i>Molecular Cell</i> , 2020 , 80, 633-647.e7	17.6	21
117	Structure and mechanism of the essential two-component signal-transduction system WalkR in <i>Staphylococcus aureus</i> . <i>Nature Communications</i> , 2016 , 7, 11000	17.4	21
116	Prognostic implications of 5-hydroxymethylcytosines from circulating cell-free DNA in diffuse large B-cell lymphoma. <i>Blood Advances</i> , 2019 , 3, 2790-2799	7.8	21
115	An Exceptionally Selective Lead(II)-Regulatory Protein from <i>Ralstonia Metallidurans</i> : Development of a Fluorescent Lead(II) Probe. <i>Angewandte Chemie</i> , 2005 , 117, 2775-2779	3.6	20
114	RNA demethylation increases the yield and biomass of rice and potato plants in field trials. <i>Nature Biotechnology</i> , 2021 ,	44.5	20
113	METTL14 is essential for β -cell survival and insulin secretion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 2138-2148	6.9	19

112	Autophagy of the mA mRNA demethylase FTO is impaired by low-level arsenic exposure to promote tumorigenesis. <i>Nature Communications</i> , 2021 , 12, 2183	17.4	19
111	Transcriptome-wide reprogramming of N-methyladenosine modification by the mouse microbiome. <i>Cell Research</i> , 2019 , 29, 167-170	24.7	19
110	Detection of 5-hydroxymethylcytosine in DNA by transferring a keto-glucose by using T4 phage β -glucosyltransferase. <i>ChemBioChem</i> , 2011 , 12, 1682-5	3.8	18
109	QSER1 protects DNA methylation valleys from de novo methylation. <i>Science</i> , 2021 , 372,	33.3	18
108	"Gamete On" for mA: YTHDF2 Exerts Essential Functions in Female Fertility. <i>Molecular Cell</i> , 2017 , 67, 903-905	17.6	17
107	5-Hydroxymethylcytosines in Circulating Cell-Free DNA Reveal Vascular Complications of Type 2 Diabetes. <i>Clinical Chemistry</i> , 2019 , 65, 1414-1425	5.5	17
106	Long genes linked to autism spectrum disorders harbor broad enhancer-like chromatin domains. <i>Genome Research</i> , 2018 , 28, 933-942	9.7	17
105	High-Resolution Mapping of N ⁶ Methyladenosine in Transcriptome and Genome Using a Photo-Crosslinking-Assisted Strategy. <i>Methods in Enzymology</i> , 2015 , 560, 161-85	1.7	16
104	Challenges and recommendations for epigenomics in precision health. <i>Nature Biotechnology</i> , 2017 , 35, 1128-1132	44.5	16
103	RADAR: differential analysis of MeRIP-seq data with a random effect model. <i>Genome Biology</i> , 2019 , 20, 294	18.3	16
102	6mA-DNA-binding factor Jumu controls maternal-to-zygotic transition upstream of Zelda. <i>Nature Communications</i> , 2019 , 10, 2219	17.4	15
101	Converting the sacrificial DNA repair protein N-ada into a catalytic methyl phosphotriester repair enzyme. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1450-1	16.4	15
100	N ⁶ -methyladenosine modification of HIV-1 RNA suppresses type-I interferon induction in differentiated monocytic cells and primary macrophages. <i>PLoS Pathogens</i> , 2021 , 17, e1009421	7.6	15
99	METTL14 facilitates global genome repair and suppresses skin tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
98	METTL3-dependent RNA mA dysregulation contributes to neurodegeneration in Alzheimer's disease through aberrant cell cycle events. <i>Molecular Neurodegeneration</i> , 2021 , 16, 70	19	15
97	Jump-seq: Genome-Wide Capture and Amplification of 5-Hydroxymethylcytosine Sites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8694-8697	16.4	14
96	Base-Resolution Analysis of Cisplatin-DNA Adducts at the Genome Scale. <i>Angewandte Chemie</i> , 2016 , 128, 14458-14461	3.6	14
95	N-Adenosine Methylation of Socs1 mRNA Is Required to Sustain the Negative Feedback Control of Macrophage Activation. <i>Developmental Cell</i> , 2020 , 55, 737-753.e7	10.2	14

94	Progress toward liquid biopsies in pediatric solid tumors. <i>Cancer and Metastasis Reviews</i> , 2019 , 38, 553-576	14
93	Direct DNA crosslinking with CAP-C uncovers transcription-dependent chromatin organization at high resolution. <i>Nature Biotechnology</i> , 2021 , 39, 225-235	44.5 14
92	Thymine DNA glycosylase recognizes the geometry alteration of minor grooves induced by 5-formylcytosine and 5-carboxylcytosine. <i>Chemical Science</i> , 2019 , 10, 7407-7417	9.4 13
91	Binding of ReO ₄ ⁻ with an engineered MoO ₄ ²⁻ -binding protein: towards a new approach in radiopharmaceutical applications. <i>Journal of Biological Inorganic Chemistry</i> , 2012 , 17, 97-106	3.7 13
90	Post-translational modification of RNA m ⁶ A demethylase ALKBH5 regulates ROS-induced DNA damage response. <i>Nucleic Acids Research</i> , 2021 , 49, 5779-5797	20.1 13
89	Site-specific mA editing. <i>Nature Chemical Biology</i> , 2019 , 15, 848-849	11.7 12
88	Metal-binding properties of Hpn from <i>Helicobacter pylori</i> and implications for the therapeutic activity of bismuth. <i>Chemical Science</i> , 2011 , 2, 451-456	9.4 12
87	Gluten-induced RNA methylation changes regulate intestinal inflammation via allele-specific translation in epithelial cells. <i>Gut</i> , 2022 , 71, 68-76	19.2 12
86	Detection of mismatched 5-hydroxymethyluracil in DNA by selective chemical labeling. <i>Methods</i> , 2015 , 72, 16-20	4.6 11
85	Chromatin and transcriptional regulation by reversible RNA methylation. <i>Current Opinion in Cell Biology</i> , 2021 , 70, 109-115	9 11
84	5-Hydroxymethylcytosine Profiles in Circulating Cell-Free DNA Associate with Disease Burden in Children with Neuroblastoma. <i>Clinical Cancer Research</i> , 2020 , 26, 1309-1317	12.9 11
83	Remodeling of the mA landscape in the heart reveals few conserved post-transcriptional events underlying cardiomyocyte hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 151, 46-55	5.8 11
82	METTL16 exerts an mA-independent function to facilitate translation and tumorigenesis.. <i>Nature Cell Biology</i> , 2022 , 24, 205-216	23.4 10
81	N ⁶ -methyladenosine modification of lncRNA Pvt1 governs epidermal stemness. <i>EMBO Journal</i> , 2021 , 40, e106276	13 10
80	Nonsegmented Negative-Sense RNA Viruses Utilize ⁶ -Methyladenosine (mA) as a Common Strategy To Evade Host Innate Immunity. <i>Journal of Virology</i> , 2021 , 95,	6.6 10
79	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. <i>Nature Cell Biology</i> , 2021 , 23, 684-691	23.4 10
78	Single base resolution mapping of 2 ^Q O-methylation sites in human mRNA and in 3 ^Q terminal ends of small RNAs. <i>Methods</i> , 2019 , 156, 85-90	4.6 10
77	Subsets of Visceral Adipose Tissue Nuclei with Distinct Levels of 5-Hydroxymethylcytosine. <i>PLoS ONE</i> , 2016 , 11, e0154949	3.7 9

76	High-Resolution Mapping of N -Methyladenosine Using mA Crosslinking Immunoprecipitation Sequencing (mA-CLIP-Seq). <i>Methods in Molecular Biology</i> , 2019 , 1870, 69-79	1.4	9
75	LEAD-m A-seq for Locus-Specific Detection of N -Methyladenosine and Quantification of Differential Methylation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 873-880	16.4	9
74	A Critical Role of Nuclear m6A Reader YTHDC1 in Leukemogenesis by Regulating MCM Complex-Mediated DNA Replication. <i>Blood</i> , 2021 ,	2.2	9
73	mA RNA modifications are measured at single-base resolution across the mammalian transcriptome.. <i>Nature Biotechnology</i> , 2022 ,	44.5	9
72	5-Hydroxymethylcytosine Profiles Are Prognostic of Outcome in Neuroblastoma and Reveal Transcriptional Networks That Correlate With Tumor Phenotype. <i>JCO Precision Oncology</i> , 2019 , 3,	3.6	8
71	DNA 5-Methylcytosine-Specific Amplification and Sequencing. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4539-4543	16.4	8
70	Oxidized Derivatives of 5-Methylcytosine Alter the Stability and Dehybridization Dynamics of Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1160-1174	3.4	8
69	Silver-Catalyzed Nitrene Transfer Reactions 2010 , 167-182		8
68	m A deposition is regulated by PRMT1-mediated arginine methylation of METTL14 in its disordered C-terminal region. <i>EMBO Journal</i> , 2021 , 40, e106309	13	8
67	Identifying the mA Methylome by Affinity Purification and Sequencing. <i>Methods in Molecular Biology</i> , 2018 , 1649, 49-57	1.4	8
66	5-Hydroxymethylcytosine signatures in circulating cell-free DNA as diagnostic and predictive biomarkers for coronary artery disease. <i>Clinical Epigenetics</i> , 2020 , 12, 17	7.7	7
65	Chromate Binding and Removal by the Molybdate-Binding Protein ModA. <i>ChemBioChem</i> , 2017 , 18, 633-638		6
64	Genome-wide profiling of DNA 5-hydroxymethylcytosine during rat Sertoli cell maturation. <i>Cell Discovery</i> , 2017 , 3, 17013	22.3	6
63	Nonenzymatic labeling of 5-hydroxymethylcytosine in nanopore sequencing. <i>ChemBioChem</i> , 2013 , 14, 1289-90	3.8	6
62	The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA. <i>Angewandte Chemie</i> , 2010 , 122, 9069-9072	3.6	6
61	Author response: YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs 2017 ,		6
60	Tethering-facilitated DNA Opening and complementary roles of Ψ -hairpin motifs in the Rad4/XPC DNA damage sensor protein. <i>Nucleic Acids Research</i> , 2020 , 48, 12348-12364	20.1	6
59	Targeting PUS7 suppresses tRNA pseudouridylation and glioblastoma tumorigenesis.. <i>Nature Cancer</i> , 2021 , 2, 932-949	15.4	6

58	Probing subcellular organic hydroperoxide formation via a genetically encoded ratiometric and reversible fluorescent indicator. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1485-9	3.7	5
57	5-Carboxylcytosine and Cytosine Protonation Distinctly Alter the Stability and Dehybridization Dynamics of the DNA Duplex. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 627-640	3.4	5
56	N6-methyladenosine promotes induction of ADAR1-mediated A-to-I RNA editing to suppress aberrant antiviral innate immune responses. <i>PLoS Biology</i> , 2021 , 19, e3001292	9.7	5
55	Alterations of 5-hydroxymethylcytosines in circulating cell-free DNA reflect retinopathy in type 2 diabetes. <i>Genomics</i> , 2021 , 113, 79-87	4.3	5
54	Silver-Mediated Oxidation Reactions: Recent Advances and New Prospects. <i>Progress in Inorganic Chemistry</i> , 2009 , 1-48		4
53	DNA cytosine hydroxymethylation levels are distinct among non-overlapping classes of peripheral blood leukocytes. <i>Journal of Immunological Methods</i> , 2016 , 436, 1-15	2.5	4
52	5-Hydroxymethylcytosine profiles of cfDNA are highly predictive of R-CHOP treatment response in diffuse large B cell lymphoma patients. <i>Clinical Epigenetics</i> , 2021 , 13, 33	7.7	4
51	METTL3 Regulates Liver Homeostasis, Hepatocyte Ploidy, and Circadian Rhythm-Controlled Gene Expression in Mice. <i>American Journal of Pathology</i> , 2021 ,	5.8	4
50	An integrative analysis of genome-wide 5-hydroxymethylcytosines in circulating cell-free DNA detects noninvasive diagnostic markers for gliomas. <i>Neuro-Oncology Advances</i> , 2021 , 3, vdab049	0.9	4
49	FTO mediates LINE1 mA demethylation and chromatin regulation in mESCs and mouse development.. <i>Science</i> , 2022 , eabe9582	33.3	4
48	Preparation of Human Nuclear RNA m ⁶ A Methyltransferases and Demethylases and Biochemical Characterization of Their Catalytic Activity. <i>Methods in Enzymology</i> , 2015 , 560, 117-30	1.7	3
47	The mA methyltransferase METTL3 regulates muscle maintenance and growth in mice.. <i>Nature Communications</i> , 2022 , 13, 168	17.4	3
46	Fto Plays an Oncogenic Role in Acute Myeloid Leukemia As a N6-Methyladenosine RNA Demethylase. <i>Blood</i> , 2016 , 128, 2706-2706	2.2	3
45	HRD1-mediated METTL14 degradation regulates mA mRNA modification to suppress ER proteotoxic liver disease. <i>Molecular Cell</i> , 2021 ,	17.6	3
44	Aberrant RNA methylation triggers recruitment of an alkylation repair complex. <i>Molecular Cell</i> , 2021 , 81, 4228-4242.e8	17.6	3
43	Alterations of 5-hydroxymethylation in circulating cell-free DNA reflect molecular distinctions of subtypes of non-Hodgkin lymphoma. <i>Npj Genomic Medicine</i> , 2021 , 6, 11	6.2	3
42	Phasing Gene Expression: mRNA N-Methyladenosine Regulates Temporal Progression of Mammalian Cortical Neurogenesis. <i>Biochemistry</i> , 2018 , 57, 1055-1056	3.2	2
41	A highly sensitive and genetically encoded fluorescent reporter for ratiometric monitoring of quinones in living cells. <i>Chemical Communications</i> , 2013 , 49, 8027-9	5.8	2

40	Making Changes: N-Methyladenosine-Mediated Decay Drives the Endothelial-to-Hematopoietic Transition. <i>Biochemistry</i> , 2017 , 56, 6077-6078	3.2	2
39	Gold-Catalyzed Additions to Alkenes: N-Nucleophiles 2012 , 297-302		2
38	AlkB recognition of a bulky DNA base adduct stabilized by chemical cross-linking. <i>Science China Chemistry</i> , 2010 , 53, 86-90	7.9	2
37	Cover Picture: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. Int. Ed. 47/2010). <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8765-8765	16.4	2
36	The METTL5-TRMT112 N-methyladenosine methyltransferase complex regulates mRNA translation via 18S rRNA methylation.. <i>Journal of Biological Chemistry</i> , 2022 , 101590	5.4	2
35	Viral RNA N6-methyladenosine modification modulates both innate and adaptive immune responses of human respiratory syncytial virus.. <i>PLoS Pathogens</i> , 2021 , 17, e1010142	7.6	2
34	Novel evidence for mA methylation regulators as prognostic biomarkers and FTO as a potential therapeutic target in gastric cancer. <i>British Journal of Cancer</i> , 2021 ,	8.7	2
33	RNA-protein interaction mapping via MS2 or Cas13-based APEX targeting		2
32	Reply to QAre the 5-hydroxymethylcytosine-based wd-scores really superior over Hfetoprotein for the early diagnosis of hepatocellular carcinoma?QGut, 2020 , 69, 1903-1904	19.2	2
31	Lysine acetylation restricts mutant IDH2 activity to optimize transformation in AML cells. <i>Molecular Cell</i> , 2021 , 81, 3833-3847.e11	17.6	2
30	Impact of DNA sequences on DNA QopeningQby the Rad4/XPC nucleotide excision repair complex. <i>DNA Repair</i> , 2021 , 107, 103194	4.3	2
29	Chemical decaging in living systems. <i>National Science Review</i> , 2015 , 2, 250-251	10.8	1
28	Retraction for Zhao et al., Pseudomonas aeruginosa outer membrane vesicles modulate host immune responses by targeting the toll-like receptor 4 signaling pathway. <i>Infection and Immunity</i> , 2015 , 83, 2198	3.7	1
27	Decoding the transcriptome and DNA methylome of human primordial germ cells. <i>Science China Life Sciences</i> , 2015 , 58, 729-30	8.5	1
26	Gold-Catalyzed Additions to Alkenes: O-Nucleophiles 2012 , 303-307		1
25	The N6-Adenine Methyltransferase METTL14 Plays an Oncogenic Role in Acute Myeloid Leukemia. <i>Blood</i> , 2016 , 128, 1536-1536	2.2	1
24	Targeted Inhibition of STAT/TET1 Axis As a Potent Therapeutic Strategy for Acute Myeloid Leukemia. <i>Blood</i> , 2017 , 130, 857-857	2.2	1
23	REPIC: A database for exploring N6-methyladenosine methylome		1

22	RADAR: Differential analysis of MeRIP-seq data with a random effect model		1
21	5-Hydroxymethylcytosine (5-hmC) Specific Enrichment. <i>Bio-protocol</i> , 2012 , 2,	0.9	1
20	A glance at N(6)-methyladenosine in transcript isoforms. <i>Nature Methods</i> , 2016 , 13, 624-5	21.6	1
19	mRNA acetylation: a new addition to the epitranscriptome. <i>Cell Research</i> , 2019 , 29, 91-92	24.7	1
18	Transcriptome-Wide Detection of Internal N-Methylguanosine. <i>Methods in Molecular Biology</i> , 2021 , 2298, 97-104	1.4	1
17	Utility of Perioperative Measurement of Cell-Free DNA and Circulating Tumor DNA in Informing the Prognosis of GI Cancers: A Systematic Review.. <i>JCO Precision Oncology</i> , 2022 , 6, e2100337	3.6	1
16	The chromatin organization of a chlorarachniophyte nucleomorph genome.. <i>Genome Biology</i> , 2022 , 23, 65	18.3	1
15	m6A facilitates hippocampus-dependent learning and memory through Ythdf1. <i>FASEB Journal</i> , 2018 , 32, 787.6	0.9	0
14	Multi-cancer detection and tissue of origin determination based on 5-hydroxymethylcytosine biomarkers in circulating cell-free DNA.. <i>Journal of Clinical Oncology</i> , 2021 , 39, 3123-3123	2.2	0
13	5-Hydroxymethylcytosines in circulating cell-free DNA and overall survival in patients with multiple myeloma.. <i>Journal of Clinical Oncology</i> , 2021 , 39, 8032-8032	2.2	0
12	Epigenetics: Making your mark on DNA. <i>Nature Chemistry</i> , 2017 , 9, 1040-1042	17.6	
11	Detecting hepatocellular carcinoma in blood. <i>Cell Research</i> , 2015 , 25, 1279-80	24.7	
10	Visualizing a protein@ sugars. <i>National Science Review</i> , 2014 , 1, 480-481	10.8	
9	Chemical methods to study protein-nucleic acid interactions. <i>Nucleic Acids Symposium Series</i> , 2009 , 43		
8	Titelbild: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. 47/2010). <i>Angewandte Chemie</i> , 2010 , 122, 8947-8947	3.6	
7	Global Detection of RNA Methylation by Click Degradation. <i>ACS Central Science</i> , 2020 , 6, 2126-2129	16.8	
6	5-Hydroxymethylcytosine Signatures in Circulating Cell-Free DNA as Early Warning Biomarkers for COVID-19 Progression and Myocardial Injury.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 781267	5.7	
5	5-Hydroxymethylcytosines of Circulating Cell-Free DNA and Prognosis in Diffuse Large B-Cell Lymphoma. <i>Blood</i> , 2018 , 132, 2985-2985	2.2	

- 4 Bromodomain and Extra-Terminal Motif Proteins (BETs) Mediate 5-Azacitidine Resistance in Myeloid Leukemia through Recruitment of an Active RNA Polymerase II Complex. *Blood*, **2016**, 128, 746-746
- 3 Oxidative Nucleic Acid Modification and Demodification. *FASEB Journal*, **2012**, 26, 470.2 0.9
- 2 LEAD-m6A-seq for Locus-Specific Detection of N6-Methyladenosine and Quantification of Differential Methylation. *Angewandte Chemie*, **2021**, 133, 886-893 3.6
- 1 Genome-wide Analysis Reflects Novel 5-Hydroxymethylcytosines Implicated in Diabetic Nephropathy and the Biomarker Potential. **2022**, 3, 49-60